

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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Applicant: Ali S Sadri et al.

Title: MULTICHANNEL ORTHOGONAL FREQUENCY DIVISION MULTIPLEXED  
RECEIVERS WITH ANTENNA SELECTION AND MAXIMUM-RATIO COMBINING AND  
ASSOCIATED METHODS

Docket No. 884.B53US1

Filed: December 29, 2003

Examiner: Unknown

Serial No.: 10/749,903

Due Date: N/A

Group Art Unit: 2661

**Mail Stop Amendment**

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

We are transmitting herewith the following attached items (as indicated with an "X"):

- ☒ A return postcard.
- ☒ A Communication Concerning Related Applications (1 pg.).
- ☒ An Information Disclosure Statement (2 pgs.), Form 1449 (1 pg.), and copies of 3 cited documents.

If not provided for in a separate paper filed herewith, Please consider this a PETITION FOR EXTENSION OF TIME for sufficient number of months to enter these papers and please charge any additional fees or credit overpayment to Deposit Account No. 19-0743.

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.  
Customer Number 21186

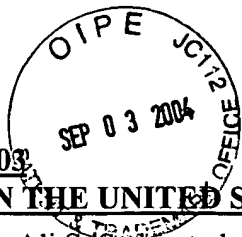
By: Ann M. McCrackin  
Atty: Ann M. McCrackin  
Reg. No. 42,858

CERTIFICATE UNDER 37 CFR 1.8: The undersigned hereby certifies that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail, in an envelope addressed to: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this 31 day of August, 2004.

KACIA LEE  
Name

Kacia Lee  
Signature

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.  
(GENERAL)



S/N 10/749,903

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Ali S. Sadri et al. Examiner: Unknown  
Serial No.: 10/749,903 Group Art Unit: 2661  
Filed: December 29, 2003 Docket: 884.B53US1  
Title: MULTICHANNEL ORTHOGONAL FREQUENCY DIVISION MULTIPLEXED  
RECEIVERS WITH ANTENNA SELECTION AND MAXIMUM-RATIO  
COMBINING AND ASSOCIATED METHODS  
Assignee: Intel Corporation Customer No.: 21186

COMMUNICATION CONCERNING RELATED APPLICATION(S)

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Applicants would like to bring to the Examiner's attention the following related application(s) in the above-identified patent application:

<u>Serial/Patent No.</u>	<u>Filing Date</u>	<u>Attorney Docket</u>	<u>Title</u>
10/862535	June 7, 2004	884.C80US1	MULTICARRIER COMMUNICATION SYSTEM AND METHODS FOR LINK ADAPTATION USING UNIFORM BIT LOADING AND SUBCARRIER PUNCTURING

Respectfully submitted,

ALI S. SADRI ET AL.

By Applicants' Representatives,

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.  
Attorneys for Intel Corporation  
P.O. Box 2938  
Minneapolis, MN 55402  
(612) 349-9592

Date

Aug. 30, 2004

By

Ann M. McCrackin

Ann M. McCrackin  
Reg. No. 42,858

CERTIFICATE UNDER 37 CFR 1.8: The undersigned hereby certifies that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail, in an envelope addressed to: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this 31 day of August, 2004.

Name

KACIA LEE

Signature

Kacia Lee

**S/N 10/749,903**

**PATENT**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant:	Ali S Sadri et al.	Examiner:	Unknown
Serial No.:	10/749,903	Group Art Unit:	2661
Filed:	December 29, 2003	Docket:	884.B53US1
Title:	MULTICHANNEL ORTHOGONAL FREQUENCY DIVISION MULTIPLEXED RECEIVERS WITH ANTENNA SELECTION AND MAXIMUM-RATIO COMBINING AND ASSOCIATED METHODS		
Assignee:	Intel Corporation	Customer No:	21186

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**INFORMATION DISCLOSURE STATEMENT**

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

In compliance with the duty imposed by 37 C.F.R. § 1.56, and in accordance with 37 C.F.R. §§ 1.97 *et. seq.*, the enclosed materials are brought to the attention of the Examiner for consideration in connection with the above-identified patent application. Applicants respectfully request that this Information Disclosure Statement be entered and the documents listed on the attached Form 1449 be considered by the Examiner and made of record. Pursuant to the provisions of MPEP 609, Applicants request that a copy of the 1449 form, initialed as being considered by the Examiner, be returned to the Applicants with the next official communication.

Pursuant to 37 C.F.R. §1.97(b), it is believed that no fee or statement is required with the Information Disclosure Statement. However, if an Office Action on the merits has been mailed, the Commissioner is hereby authorized to charge the required fees to Deposit Account No. 19-0743 in order to have this Information Disclosure Statement considered.

**INFORMATION DISCLOSURE STATEMENT**

Serial No : 10/749,903

Filing Date: December 29, 2003

Title: MULTICHANNEL ORTHOGONAL FREQUENCY DIVISION MULTIPLEXED RECEIVERS WITH ANTENNA SELECTION AND  
MAXIMUM-RATIO COMBINING AND ASSOCIATED METHODS

Assignee: Intel Corporation

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Dkt: 884.B53US1 (INTEL)

The present application is either a U.S. national patent application filed after June 30, 2003 or an international application that entered the national stage under 35 U.S.C. § 371 after June 30, 2003. Thus, Applicant believes that the U.S. Patent & Trademark Office has waived the requirement under 37 C.F.R. 1.98 (a)(2)(i) for submitting a copy of each cited U.S. patent and each U.S. patent application publication. The waiver is provided in a pre-OG notice from the U.S. Patent & Trademark Office entitled "Information Disclosure Statements May Be Filed Without Copies of U.S. Patents and Published Applications in Patent Applications filed after June 30, 2003" and dated July 11, 2003. Applicant acknowledges the requirement to submit copies of foreign patent documents and non-patent literature in accordance with 37 C.F.R. 1.98(a)(2).

The Examiner is invited to contact the Applicants' Representative at the below-listed telephone number if there are any questions regarding this communication.

Respectfully submitted,

ALI S SADRI ET AL.

By their Representatives,

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.  
Attorneys for Intel Corporation  
P.O. Box 2938  
Minneapolis, Minnesota 55402  
(612) 349-9592

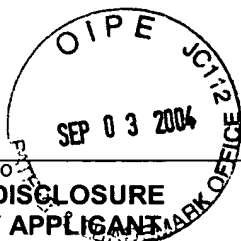
Date Aug. 30, 2004

By Ann M. McCrackin  
Ann M. McCrackin  
Reg. No. 42,858

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KACIA LEE  
Name

Kacia Lee  
Signature



Substitute for form 1449A/PTO  
**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
(Use as many sheets as necessary)

Complete if Known

Application Number	10/749,903
Filing Date	December 29, 2003
First Named Inventor	Sadri, Ali
Group Art Unit	2661
Examiner Name	Unknown

Sheet 1 of 1

Attorney Docket No: 884.B53US1

### US PATENT DOCUMENTS

Examiner Initial *	USP Document Number	Publication Date	Name of Patentee or Applicant of cited Document	Class	Subclass	Filing Date If Appropriate
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### FOREIGN PATENT DOCUMENTS

Examiner Initials*	Foreign Document No	Publication Date	Name of Patentee or Applicant of cited Document	Class	Subclass	T <sup>2</sup>
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### OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		ABDUL AZIZ, M. K., et al., "Indoor throughput and range improvements using standard compliant AP antenna diversity in IEEE 802.11a and ETSI HIPERLAN/2", VTC 2001 Fall. IEEE VTS 54th Vehicular Technology Conference, 2001, Volume 4, (October 7-11, 2001), 2294-2298	
		CIOFFI, JOHN M., "Lectures on Digital Communications", Stanford University, Available from <a href="http://www.stanford.edu/class/ee379c/">http://www.stanford.edu/class/ee379c/</a> , (2001), 278-314	
		LEKE, A , et al., "A maximum rate loading algorithm for discrete multitone modulation systems", GLOBECOM '97, Global Telecommunications Conference, 1997, Volume 3, (November 8, 1997), 1514-1518	

EXAMINER

DATE CONSIDERED

Substitute Disclosure Statement Form (PTO-1449)

\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional) <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached